LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) For use in an ultra wideband (UWB) communication system, a method for communicating binary data as a sequence of UWB pulses using time division multiple access (TDMA), the method comprising:

allocating a succession of TDMA time intervals to respective users;

transmitting a first UWB user pulse in a first TDMA time interval;

receiving a first UWB user return pulse in the first TDMA time interval;

transmitting a second and other UWB user pulses in a second and subsequent respective TDMA time intervals; and

receiving a second UWB user return pulse in the second TDMA time interval, and other UWB user pulses in subsequent respective TDMA time intervals;

wherein each TDMA time interval is selected to be at least twice the propagation time needed to transmit data to a user, to minimize interference effects.

2. (Previously Presented) For use in an ultra wideband (UWB) communication system, a method for communicating binary data as a sequence of UWB pulses using time division multiple access (TDMA), the method comprising:

allocating a succession of TDMA time intervals to respective users;

transmitting multiple UWB data pulses in a first TDMA time interval; and

receiving multiple UWB return data pulses later in the same TDMA time interval;

wherein each TDMA time interval is selected to be at least twice the propagation time needed to transmit data to a user, to minimize interference effects.

3. (Previously Presented) A method as defined in claim 2, wherein:

the multiple UWB data pulses are transmitted to a first user; and

the multiple UWB return data pulses are received from the same first user.

4. (Previously Presented) A method as defined in claim 3, wherein the method further comprises:

transmitting multiple UWB data pulses to a second user in a second TDMA time interval; and

receiving multiple UWB return data pulses from the second user in the second TDMA time interval.

5. (Canceled)

6. (Previously Presented) For use in an ultra wideband (UWB) communication system, a method for communicating binary data as a sequence of UWB pulses using time division multiple access (TDMA), the method comprising:

allocating subintervals of each TDMA time interval to different users;

transmitting multiple UWB data pulses in a first TDMA time interval, wherein the data pulses are addressed to separate multiple users; and

receiving multiple UWB return data pulses later in the same TDMA time interval, wherein the return data pulses are received from separate multiple users;

wherein each TDMA time interval is selected to be at least twice the propagation time needed to transmit data to a user, to minimize interference effects.

7. (Previously Presented) A method as defined in claim 6, and further comprising:

transmitting multiple UWB data pulses to multiple users in a second TDMA time interval; and

receiving multiple UWB return data pulses later in the same second TDMA time interval.

8. (Canceled)